

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD 589 AT McALLISTER ROAD/ENTRANCE TO OCEAN DOWNS IN WORCESTER COUNTY. MD 589 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH HE NORTH AND SOUTHBOUND MOVEMENTS OF MD 589. THE MD 589 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE McALLISTER ROAD/OCEAN DOWNS ENTRANCE MOVEMENTS WILL OPERATE CONCURRENTLY.

SPECIAL NOTE:

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE DROP INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET NUMBER, ZIP CODE, AND TELEPHONE NUMBER.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.  
NONE.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
2	EA	27 FT. STEEL TWIN MAST ARM POLE WITH 50 FT. AND 60 FT. MAST ARMS
2	EA	20 FT. LUMINARIES ARM
2	EA	250W HPS LAMP AND LUMINARIES
1	EA	STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA 6 CABINET, VIDEO DETECTION INTERFACE, AND ONE (1) FOUR-CHANNEL LOOP DETECTOR AMPLIFIER [Note: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONDLITE AND DELIVERED TO THE S.H.A. SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650]
4	EA	TERRA VIDEO DETECTOR CAMERA
750	LF	TERRA VIDEO DETECTOR CAMERA CABLE
2	EA	NON-INVASIVE MICRO-LOOP PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE
6	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST
2	A	12 IN. 5-SECTION LED SIGNAL HEAD - MAST
2	EA	12 IN/8 IN. 5-SECTION LED SIGNAL HEAD - MAST
4	EA	16 IN. X VAR. D3-2(2) SIGN - MAST ARM
2	EA	30 IN. X 30" R1-1 SIGN - GROUND
2	EA	48 IN. X 48 IN. W3-3 "NEW" SIGN - GROUND
2	EA	48 IN. X VAR. D3-2(2) SIGN - GROUND
2	EA	30 IN. X 51 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT
2	EA	48 IN. X 75 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT
110	LF	4 IN. X 6 IN. WOOD SIGN SUPPORTS
3	EA	REMOVE EXISTING GROUND MOUNTED SIGN AND POST.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:  
PROJECT CONTACTS:

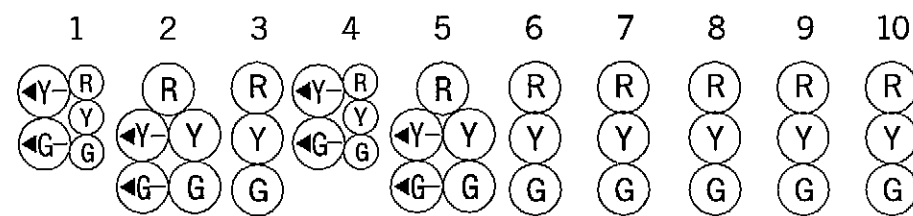
MR WAYNE SNOWDEN ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 677-4045  
MR. GREG HOSLEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 677-4020  
MR. WAYNE WEICHMAN, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 677-4010  
MR. BRUCE POOLE, UTILITY ENGINEER  
PHONE: (410) 677-4082  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS  
PHONE: (410)-787-7652

THE POWER COMPANY REPRESENTATIVE IS:  
DELMARVA POWER  
P.O. BOX 1739  
SALISBURY, MD 21802-1739  
PHONE: 410-860-6357  
FAX: 410-860-6057  
CONTACT PERSON:  
RICK OTWELL  
PHONE: 410-860-6042  
JOB: # 6087921

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP.  
CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

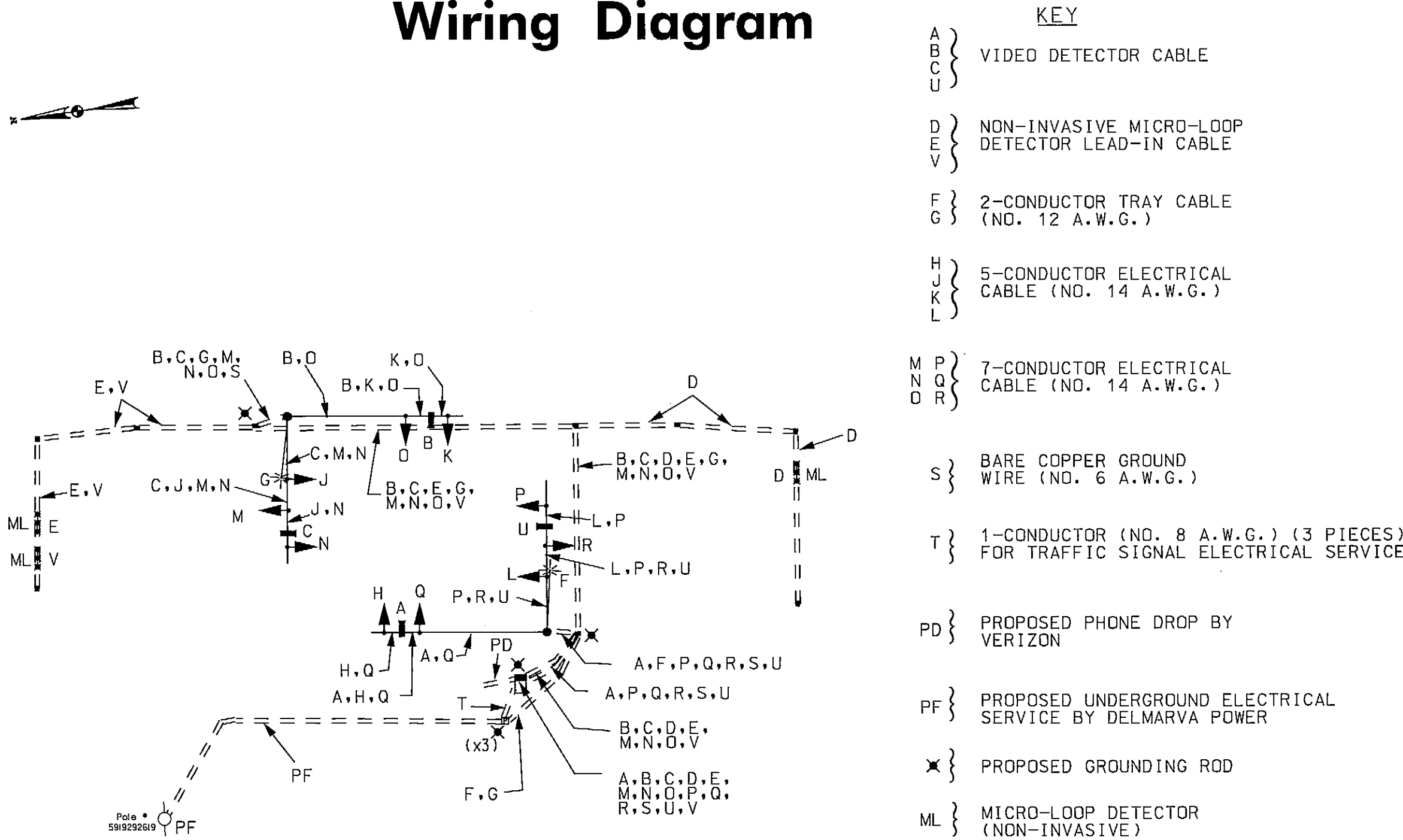
QUANTITY	UNITS	DESCRIPTION
3	CY	TEST PIT EXCAVATION
9	EA	HANDHOLE
75	LF	1-CONDUCTOR CABLE (NO. 8 AWG)
390	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
160	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
1045	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
300	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
55	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
735	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
140	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
170	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
240	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - BORED
12.0	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
6	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
1	EA	EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS)
170	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE

## Phase Chart



PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	↑
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6											↓
PHASE 1 AND 6	R	R	R	←GG	←GG	G	R	R	R	R	←
1 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	←
PHASE 2 AND 5	←GG	←GG	G	R	R	R	R	R	R	R	↑
5 CHANGE	←YG	←YG	G	R	R	R	R	R	R	R	↑
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	←
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	↑
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	↑

## Wiring Diagram



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 589 (RACETRACK ROAD) AT  
McALLISTER ROAD /OCEAN DOWNS ENTRANCE  
Ocean Pines

### GENERAL INFORMATION PLAN

SCALE NA DATE JULY 29, 2010 CONTRACT NO. BW996M82

DESIGNED BY FRANK HOECKEL COUNTY WORCESTER  
DRAWN BY FRANK HOECKEL LOGMILE 23058900.042  
CHECKED BY                      TMS NO. K-293  
F.A.P. NO. NA TOD NO.                     

TS NO. 4765 DRAWING **G1-01** OF 01 SHEET NO. 2 OF 2

PLOTTED: Monday, August 02, 2010 AT 02:15 PM  
FILE: F:\2009\2009-001\asse\TEDO\SH-MD\_589\_Ocean Downs Raceway.dgn



The Traffic Group, Inc.  
Suite H  
9900 Franklin Square Drive  
Baltimore, Maryland 21236  
410-931-6600  
1-800-583-8411  
Fax 410-931-6601  
"Merging Innovation and Excellence"®

BY: F.Hoeckel